Datasheet for ABIN1706072

TNFRSF13C ELISA Kit

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Overview

Quantity:	96 tests
Target:	TNFRSF13C
Binding Specificity:	AA 7-71
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	78-5000 pg/mL
Minimum Detection Limit:	78 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human TNFRSF13C/BAFFR
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: S7-A71
Specificity:	Expression system for standard: NSO Immunogen sequence: S7-A71
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	TNFRSF13C
Alternative Name:	TNFRSF13C (TNFRSF13C Products)
Background:	Protein Function: B-cell receptor specific for TNFSF13B/TALL1/BAFF/BLyS. Promotes the survival of mature B-cells and the B-cell response. . Background: Tumor necrosis factor receptor superfamily member 13C also known as B-cell-activating factor receptor or BAFF receptor is a protein that in humans is encoded by the TNFRSF13C gene. By homology to a BAC clone, the BAFFR gene was mapped to chromosome 22q13.1-q13.31. B-cell activating factor(BAFF) enhances B-cell survival in vitro and is a regulator of the peripheral B-cell population. The protein encoded by this gene is a receptor for BAFF and is a type III transmembrane protein containing a single extracellular phenylalanine-rich domain. It is thought that this receptor is the principal receptor required for BAFF-mediated mature B-cell survival. Synonyms: Tumor necrosis factor receptor superfamily member 13C,B-cell-activating factor receptor,BAFF receptor,BAFF-R,BLyS receptor 3,CD268,TNFRSF13C,BAFFR, BR3, Full Gene Name: Tumor necrosis factor receptor superfamily member 13C Cellular Localisation: Membrane, Single-pass type III membrane protein.
Gene ID:	115650
UniProt:	Q96RJ3
Pathways:	NF-kappaB Signaling

Application Details

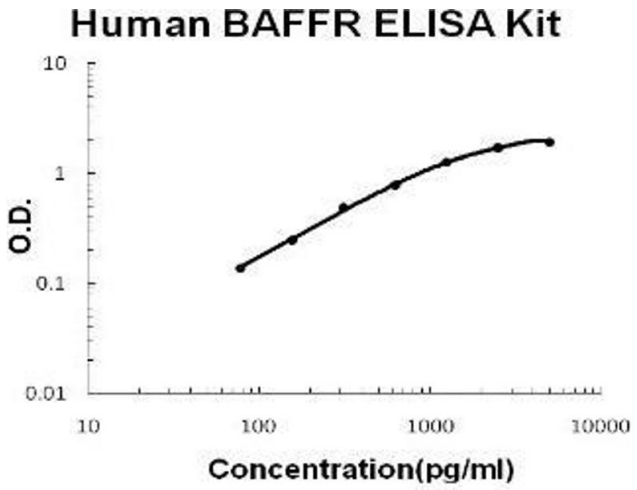
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Highly expressed in spleen and lymph node, and in resting B-cells. Detected at lower levels in activated B-cells, resting CD4+ T-cells, in thymus and peripheral blood

Application Details

	leukocytes.
Plate:	Pre-coated
Protocol:	human TNFRSF13C ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TNFRSF13C has been precoated onto 96-well plates. Standards(NSO, S7-A71) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TNFRSF13C is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human TNFRSF13C amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 313pg/mL, 156pg/mL, 78pg/mL human TNFRSF13C standard solutions into the pre-coated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human TNFRSF13C standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 643, Standard deviation: 29.6, CV(%): 4.6 • Sample 2: n=16, Mean(pg/ml): 1604, Standard deviation: 57.75, CV(%): 3.6 • Sample 3: n=16, Mean(pg/ml): 3262, Standard deviation: 169.6, CV(%): 5.2, • Sample 1: n=24, Mean(pg/ml): 745, Standard deviation: 43.21, CV(%): 5.8 • Sample 2: n=24, Mean(pg/ml): 1862, Standard deviation: 91.3, CV(%): 4.9 • Sample 3: n=24, Mean(pg/ml): 3657, Standard deviation: 234.1, CV(%): 6.4
Restrictions:	For Research Use only

Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Human TNFRSF13C/BAFFR PicoKine ELISA Kit standard curve